

D-TECT 60

GJD320 60m PIR Detector



PACKAGE CONTENTS

- 1 x D-TECT 60
- 1 x Drilling template for fixing holes
- 3 x 31.75mm wall plugs
- 3 x 31.75mm screws
- 2 x Tamper Feet
- 1 x Installation manual

INTRODUCTION

The D-TECT 60 is an outdoor motion detector and alarm trigger. The D-TECT 60 delivers precise, reliable presence detection.

QUICK INSTALLATION

1. Mount and connect the detector following the instructions given later in this sheet.
2. Apply supply voltage to the unit. The blue detection LED flashes three times.
3. Wait approximately 2 to 3 minutes to allow the detector to settle.

Note: The front cover must be fitted when walk testing. The default settings are:

- Range: 60 metres
- Pulse count: 1
- Detection LED: off

MOUNTING THE UNIT

WARNING

- **NYLON WASHERS PROVIDED MUST BE USED WITH SCREWS**
- **ENSURE CABLE ENTRY AND SCREW HOLES ARE SEALED WITH WATER BASED SEALANT**
- **DO NOT USE SILICONE BASED SEALANT**



During installation, protect the electronics against water, as trapped moisture can affect or damage the unit.

1. Drill the wall to accept the two fixing screws, the cable entry, and the tamper cup (if used). See Figures 1 and 2. A hole-drilling template is provided.

Note: We recommend using the tamper cup on uneven wall surfaces.

2. Remove the cover assembly by loosening the locking screw. The cover hinges from the top and lifts out of the location slot. See Figure 3.
3. Feed standard eight-core alarm cable into the cable entry. Bare the wires and connect 6 wires to the terminal block and optionally connect 2 to the tamper board. See Figures 2, 4, 5, 6 & 7.

4. Screw the unit to the wall ensuring that the tamper pin is correctly located and that the tamper switch is closed. See Figure 7.

To aid installation, two spare tamper feet are provided. One is 1mm longer and the other is 2mm longer than the tamper foot originally fitted. The tamper foot is a push fit and can be removed by carefully pulling it from the pin. See Figure 2.

5. When the detector is aligned, connected, and programmed to suit the installation, replace the front cover and lock as shown. See Figure 8.

ALIGNMENT & MASKING

The PIR circuitry detects changes in heat and movement in the beam pattern; therefore items such as trees, shrubs, ponds, boiler flues, and animals should be considered when positioning the detector.

Note: The PIR sensor is more sensitive to movement across the beams, and less sensitive to movement directly towards or away from the beams.

When coverage exceeds the desired detection area, adjust the module as required and mask off any beams, either vertically or horizontally, to avoid unwanted detection.

PROGRAMMING

To change any of the detector's settings change the configuration of the programming switches (see Figure 11).

PROGRAMMING CHART

Option	Switch Configuration
Range 40 metres	Switch 1 off
Range 60 metres	Switch 1 on
Pulse count 1	Switch 2 off
Pulse count 2	Switch 2 on
LED Off	Switch 3 off
LED On	Switch 3 on

PROGRAMMING OPTIONS DEFINITIONS

Pulse Count

This is the number of times the unit has to detect before signaling an output.

LED

LED Off – LED disabled.

LED On – LED signals a detection.

WALK TEST

In walk test mode, the detection LED option is set to ON, and the pulse count option is set to 1. The detection LED lights each time the D-Tect 60 detects your presence.

The walk test mode is automatically selected after power up and cancels automatically after there has been no detection for 5 minutes. After this the LED will be disabled unless selected on with switch 3.

Note: When you conduct a walk test, make sure that the front cover is in place. Do not conduct walk tests with the cover removed.

The range of the detector increases without the protective front cover. Therefore, the front cover must be fitted to establish the correct beam pattern. Use programming chart to adjust the range as necessary. Pan and tilt the lens module over the field of view to obtain the correct coverage area.

ACCESSORIES


GJD is able to supply the following accessories to aid installation:

GJD304 Conduit cable entry adaptor ring

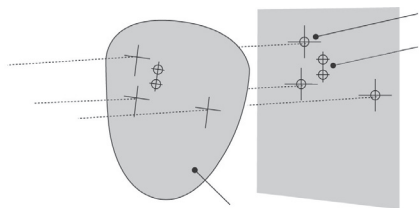
PMB1 Pole mount bracket

GJD380 D-TECT walk tester

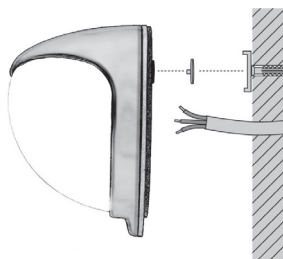
SPECIFICATIONS

Detection Area	Programmable between 40 & 60 metres
Coverage	60m x 6m coverage max.
Adjustment	180 degree pan + 90 degree tilt
Customised Optics	Double silicon shielded quad element eliminates 50,000 Lux of white Light
Outputs	Silent solid state magnetically immune
N/O	N/OPEN Volt free relay signal contact 24VAC/DC @ 50mA with an integral 25Ω Alarm time 5 seconds
N/C	N/CLOSED Volt free relay signal contact 24VAC/DC @ 50mA with an integral 25Ω Alarm time 5 seconds
Pulse Count	1-2
Power Input.	9 to 15 VDC
Current	8mA (12V nominal).
Temp. Compensation	Digital sensitivity adjustment.
Control	Digital microprocessor
Walk Test	Output test mode with LED indication
Operating Temp.	-20 to +55 Centigrade Conformal coated electronics for increased stability.
Housing	High impact zinc alloy
Protection Rating	IP 65.
Dimensions	145 x 120 x 115 mm.
Weight	750 grams NET, 880 grams GROSS
Mounting Height	Variable – optimum height 3 metres.
Cable < 200m	Using all 3 outputs (including tamper) – 8 core 7/0.2mm
Cable < 500m	Using all 3 outputs (including tamper) – 8 core 16/0.2mm
CE Mark	

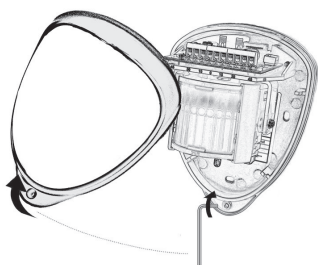
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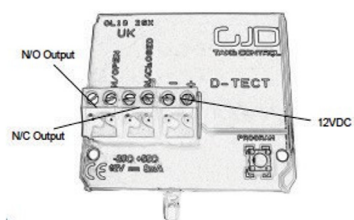
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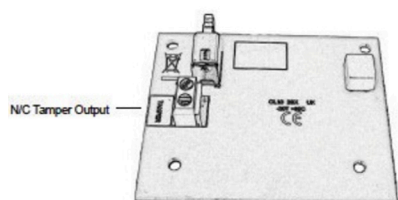
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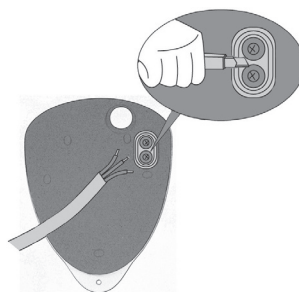
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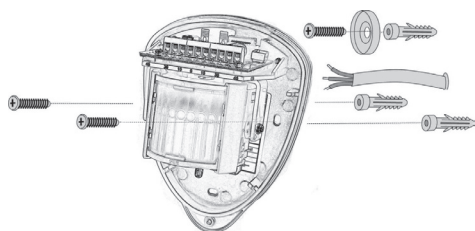
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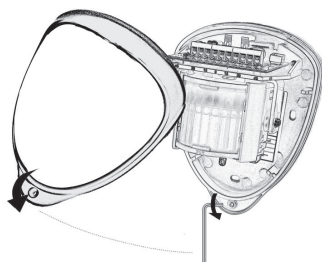
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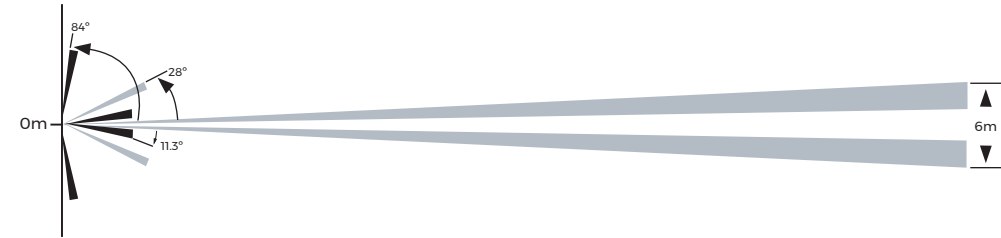
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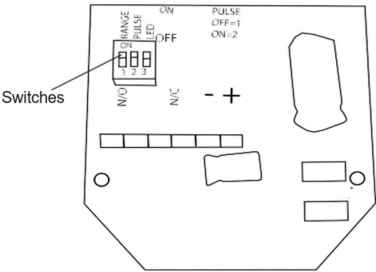
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ENGINEER NOTES

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